AMENDMENTS

IN THE CLAIMS

Please amend claims 1, 3 and 6 and add new claim 9 as follows:

1. (Currently Amended) An anastomotic connector comprising:

a fitting having a tubular portion with a proximal end and a distal end, and ~~wherein at least one~~ a plurality of self-expanding petals ~~is~~ disposed on the tubular portion distal end, said petals adapted to compress into a low profile ~~for insertion through a sheath~~ and to self-expand toward at least one resting geometry ~~upon advancement beyond a sheath distal end~~ wherein a substantially flat portion of each petal can be positioned to lie against an opposing portion of a host vessel wall.

2. (Original) The fitting of claim 1 additionally comprising a ring adapted for compressing a vessel wall between the petal and the ring.

3. (Currently Amended) The fitting of claim 1 wherein ~~the~~ at least one petal forms an angle of between about 30 degrees and about 150 degrees with a longitudinal axis of the fitting tubular portion when the petal is in the resting geometry.

4. (Original) The fitting of claim 1 additionally comprising a graft attached to the fitting tubular portion.

5. (Original) The fitting of claim 4 additionally comprising a retaining ring disposed of the graft where the graft is attached to the fitting tubular portion.

6. (Currently Amended) An anastomotic connector comprising:

a fitting having a tubular portion with a proximal end and a distal end;

at least two opposed self-expanding axial petals disposed on the tubular portion distal end, each of said axial petals adapted to compress into a low profile for insertion through a sheath and self-expanding in opposite directions to from an angle of between about 30 and about

150 degrees with a longitudinal axis of the tubular portion upon advancement beyond the distal end of the sheath; and

at least two opposed self-expanding radial petals adapted to compress into a low profile for insertion through a sheath and self-expand to extend radially in a substantially circular profile adapted to substantially follow the curvature of a vessel wall upon deployment therein. ~~advancing beyond the distal end of the sheath.~~

7. (Withdrawn) The connector of claim 6 wherein the distal ends of the radial petals substantially overlap when the petals are in the self-expanded condition.

8. (Original) The connector of claim 6 additionally comprising two additional radial petals.

9. (New) An anastomotic connector comprising:

a fitting having a tubular portion with a proximal end and a distal end;

at least two opposed self-expanding axial petals disposed on the tubular portion distal end, each of said axial petals adapted to compress into a low profile and self-expanding in opposite directions to from an angle of between about 30 and about 150 degrees with a longitudinal axis of the tubular portion upon advancement beyond the distal end of the sheath; and

at least two opposed self-expanding radial petals adapted to compress into a low profile for insertion through a sheath and self-expand to extend radially in a substantially circular profile upon advancing beyond the distal end of the sheath,

wherein the distal ends of the radial petals substantially overlap when the petals are in the self-expanded condition.